D INTERFACE

O provides the interface between the system and the hard disk drive through a 40 pin connector cable.

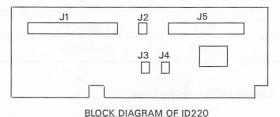
AT BUS HARD DISK DRIVE INTERFACE - J 1

n	Signal	Pin	Signal
	Reset	2	Ground
3	HD7	4	HD8
ö	HD6	6	HD9
1	HD5	8	HD10
)	HD4	10	HD11
1	HD3	12	HD12
3	HD2	14	HD13
5	HD1	16	HD14
7	HD0	18	HD15
9	Ground	20	Unused
1	Ground	22	Ground
3	- HIOW	24	Ground
5	- HIOR	26	Ground
7	IOCHRDY	28	HALE
9	Unused	30	Ground
1	IRQBUS	32	- IOCS16
3	HAI	34	Unused
5	HAO	36	HA2
7	- HCSO	38	- HCSI
9	SLV ACT	40	Ground

The hard disk drive interface has two different configuration - (i) ST412/506 interface & (ii) AT bus interface.

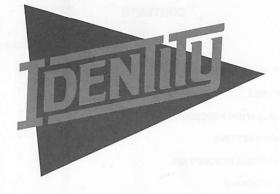
"ST412/506 interface" has the hard disk drive controller built-in the interface card. While the "AT bus interface" does not have the hard disk drive controller embedded in the interface card.

The "AT bus interface" hard disk drive has its own embedded controller and does not require an external controller. Connecting the "ST412/506" hard disk drive to the "AT bus interface" could result in damage to the hard disk drive and/or system. Check your system manual to ensure the system has an "AT bus interface" hard disk drive before using the "AT bus" hard disk drive interface.



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The above information represents the best of our knowledge. We may have erroneous information and we reserve the right to change the specifications without prior notice.



ID220

User's Manual

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1. INTRODUCTION

The ID220 is an advanced interface adapter for IBM PC/AT and compatible system. The adapter supports up to two floppy disk drives with any combination of 360K, 720K, 1.2M and 1.44MB density.

The ID220 can supports up to two "AT bus" hard disk drives with 16 bits data transfer interface.

Both FDD and HDD controller interface can be disabled according to your system requirements.

2. FEATURE

- 16 bit data transfer which is fully compatible with IBM PC/AT interface.
- Supports two floppy disk drives of any combination of 360K,
 1.2MB 5.25" and 720K.
 1.44M 3.5".
- Controls two "AT bus" hard disk drives.
- High bandwidth host interface works up to 16MHZ host I/O clock.

 FDD and HDD controller ports can be disabled.

3. INSTALLATION PROCEDURE

- Switch off all power of your system including any connected perioherals.
- (II) Removes the cover of your system and the screw of a bracket from any empty expansion slot.
- (III) Sets jumpers of the ID220 according to the FDD & HDD to be connected.
- (IV) Plugs the ID220 into the empty slot as mentioned in (II) and line up the adapter with the screw hole in the rear plate of your system.
- (V) Screws the bracket to fix the ID220 and connect the signal cables with the adapter and your FDD/HDD interface connectors.
- (VI) Replaces your system cover carefully and the installation procedure is now completed.

4. JUMPER SETTING

J3: AT "BUS" hard disk drive controller

J3	Function	
OPEN	Disable HDC	
SHORT	Enable HDC	

J4 : floppy disk drive controller

	J4	Function
1	OPEN	Disable FDC
)	SHORT	Enable FDC

5. CONNECTOR DESCRIPTION

Connector No.	Function	
J1	40-pin AT bus hard disk drive cable connector	
J2	2-pin hard disk drive led connector	
J5	34-pin floppy disk drive cable connector	

6. FDD INTERFACE

Signal

The FDD have two types of interface: control and DC power, the following figure shows the signal and pin assignments for the content of the following figure shows the signal and pin assignments for the content of the following figure shows the signal and pin assignments for the content of the following figure shows the signal and pin assignments for the content of the following figure shows the signal and pin assignments for the content of the following figure shows the signal and pin assignments for the content of the following figure shows the signal and pin assignments for the content of the following figure shows the signal and pin assignments for the content of the following figure shows the signal and pin assignments for the content of the following figure shows the signal and pin assignments for the content of the following figure shows the signal and pin assignments for the content of the following figure shows the signal and pin assignments for the content of the following figure shows the signal and pin assignments for the content of the following figure shows the signal and pin assignments for the following figure shows the signal and pin assignment of the figure shows the shows the figure shows the

FLOPPY DISK DRIVE INTERFACE - J5

Pin

Signal

		Oignai		
	1	Signal ground	2	- Reduced wri
	3	Reserved	4	Unused
	5	Signal ground	6	Unused
1	7	Signal ground	8	- INdex
	9	Signal ground	10	- Motor enabl
	11	Signal ground	12	- Drive select
	13	Signal ground	14	- Drive select
	15	Signal ground	16	- Motor enabl
	17	Signal ground	18	- Direction Se
	19	Signal ground	20	- Step
	21	Signal ground	22	 Write data
1	23	Signal ground	24	- Write enable
	25	Signal ground	26	- Track 0
1	27	Signal ground	28	- Write protec
	29	Signal ground	30	- Read data
	31	Signal ground	32	- Head 1 sele
	33	Signal ground	34	- Disk change
	l			